

FIG. 1 is a schematic diagram of a system for processing data.

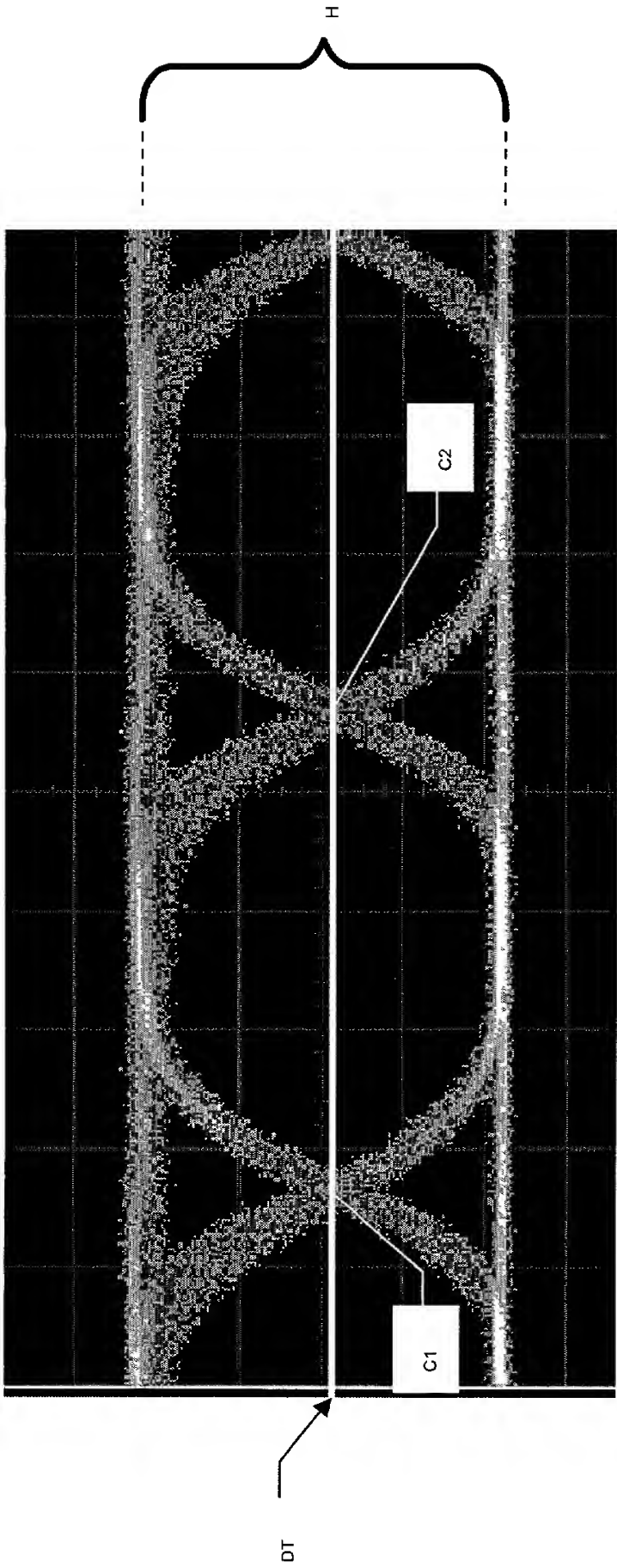


Figure 1a

FIG. 1a is a schematic diagram of a system for processing data.

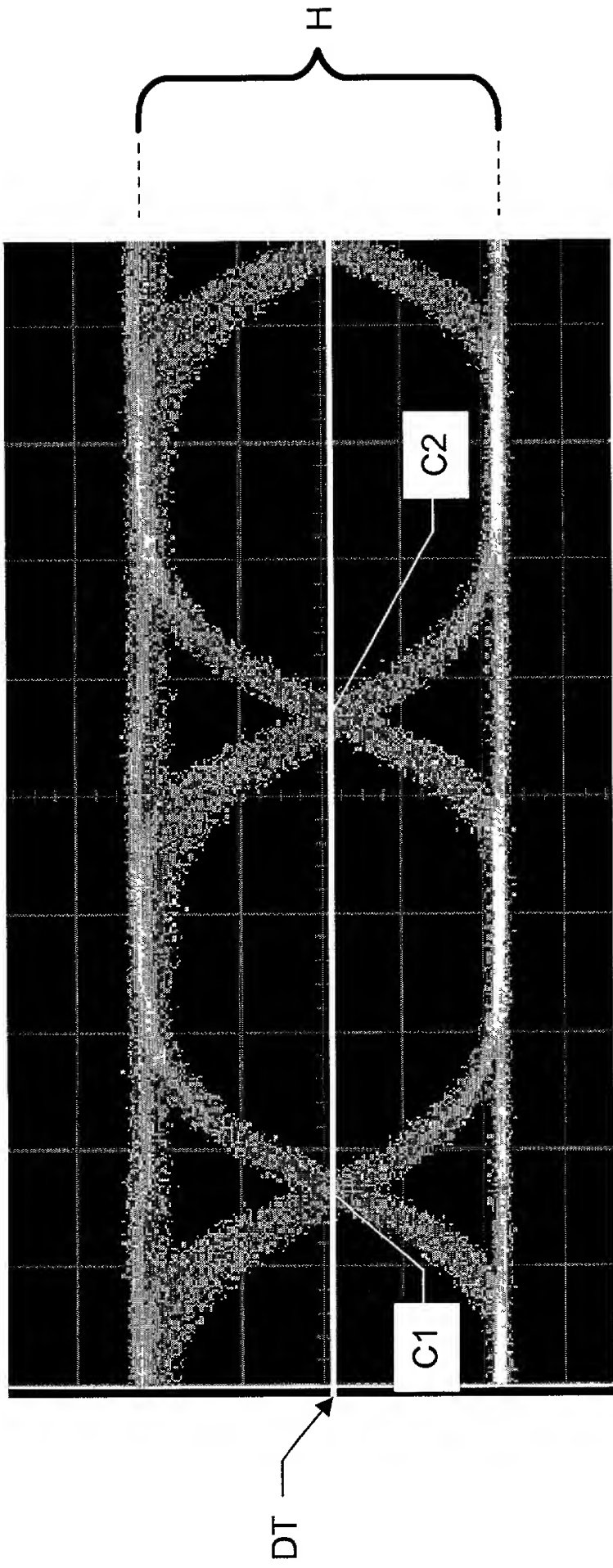


Figure 1a

Figure 1b shows the results of the simulation for the case of a single input signal. The plot displays the output signal (y-axis) versus time (x-axis). The signal is a periodic waveform, and the plot shows the results of the simulation for a single input signal.

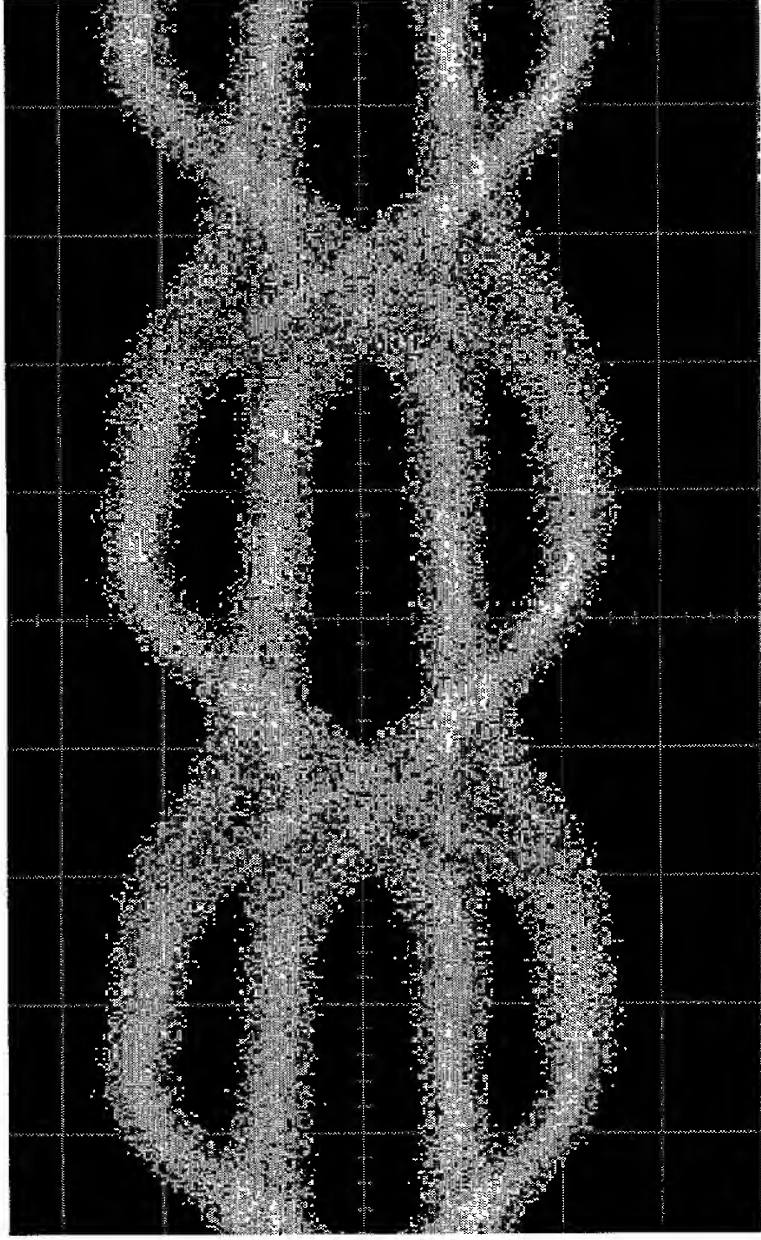


Figure 1b

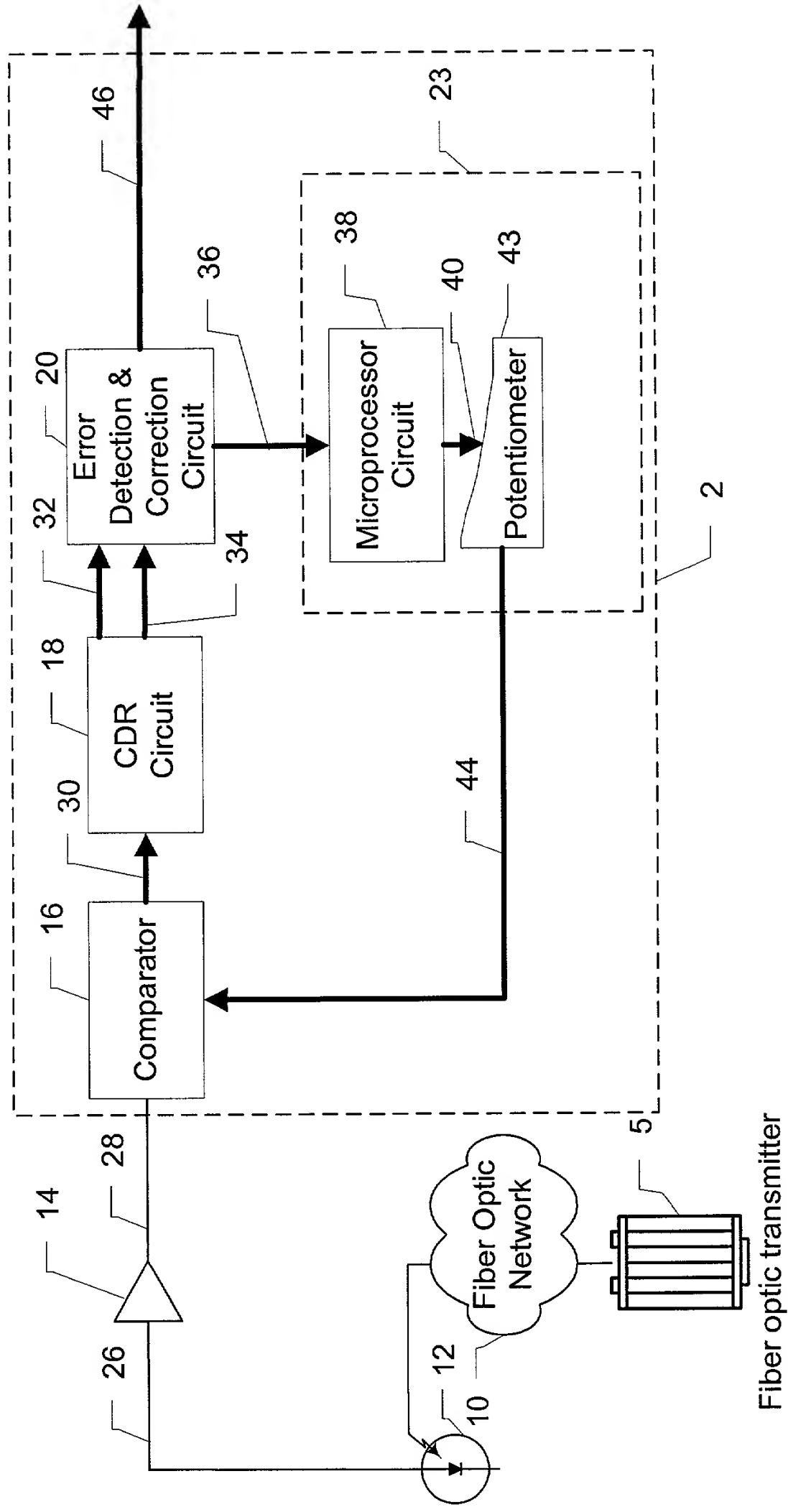


Figure 3

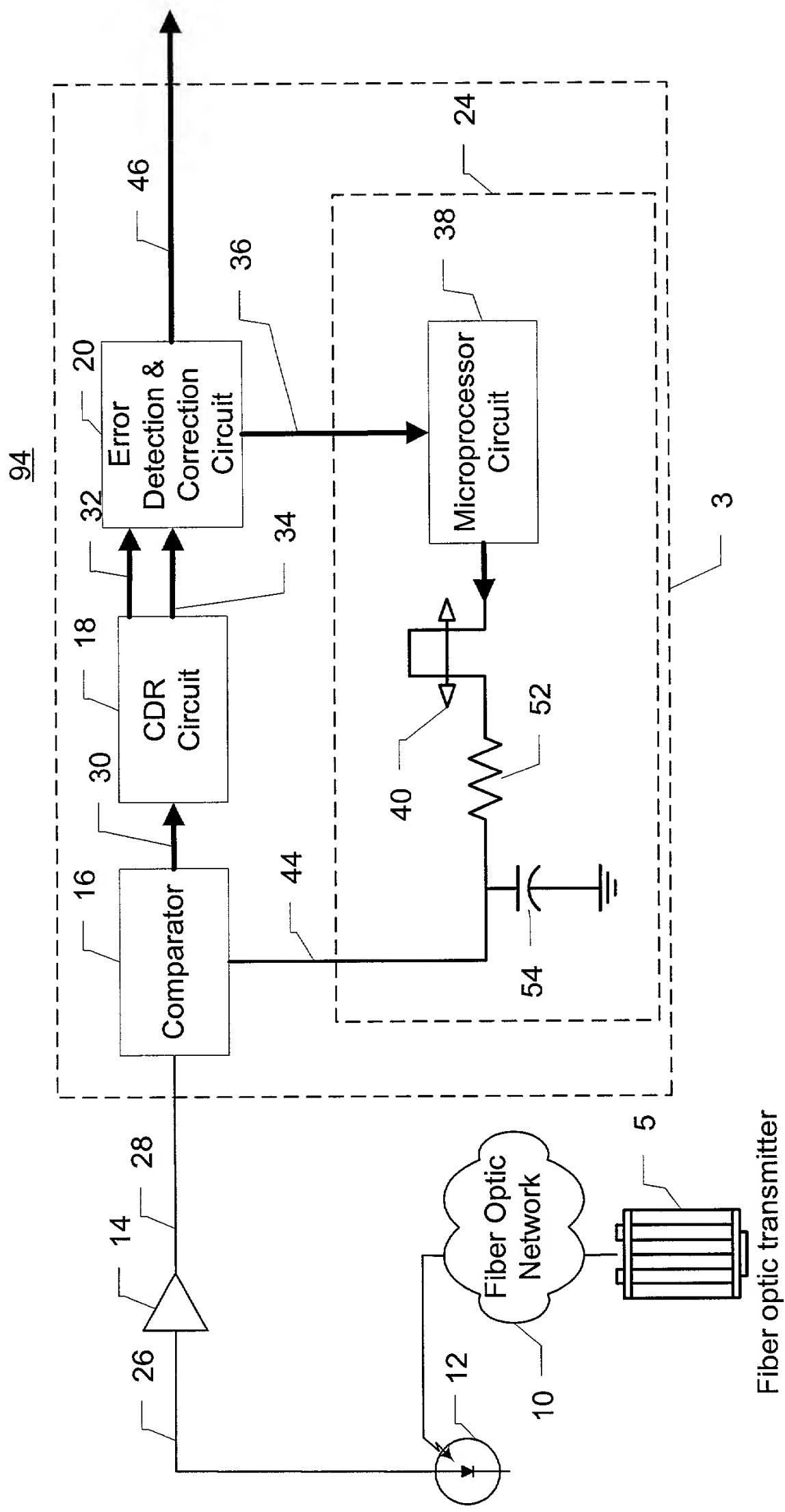


Figure 4

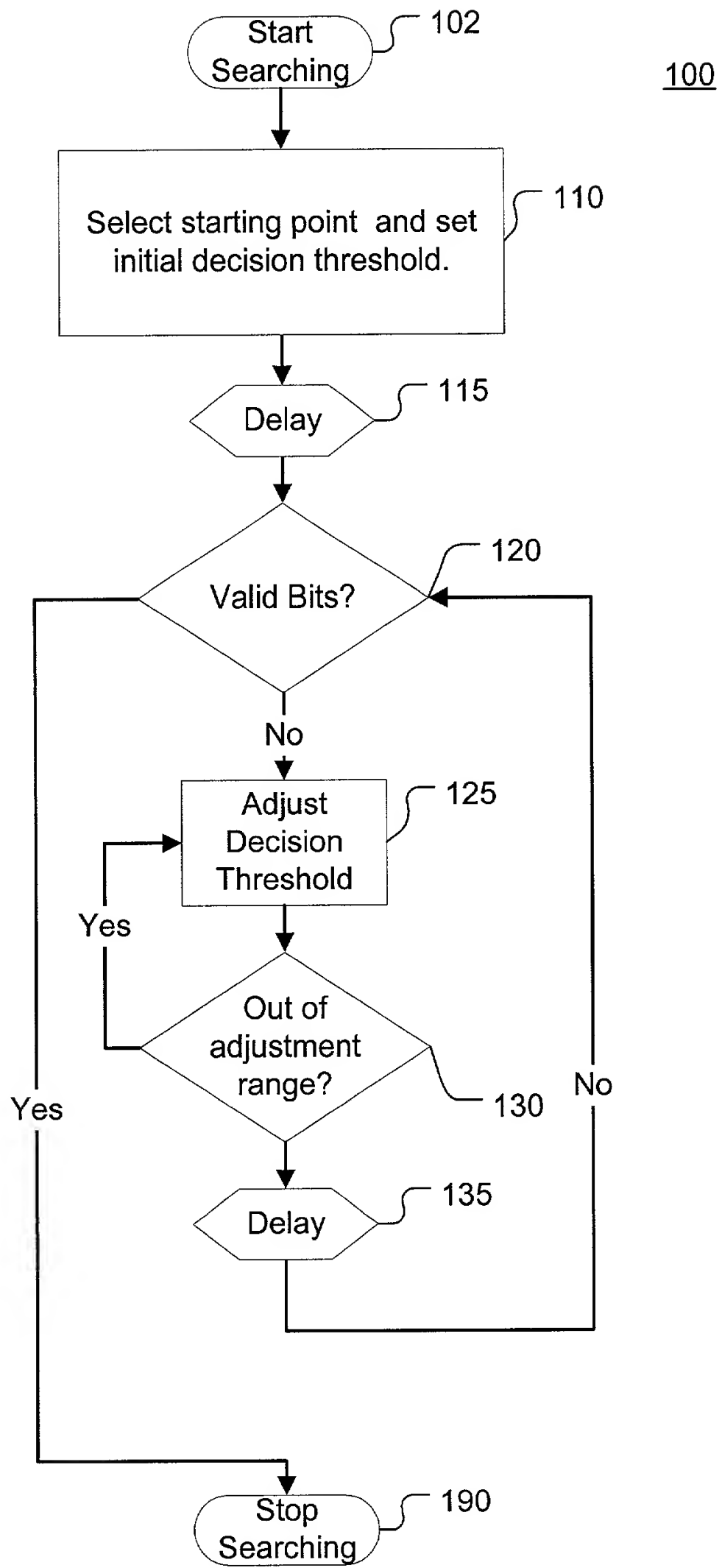


Figure 5



290

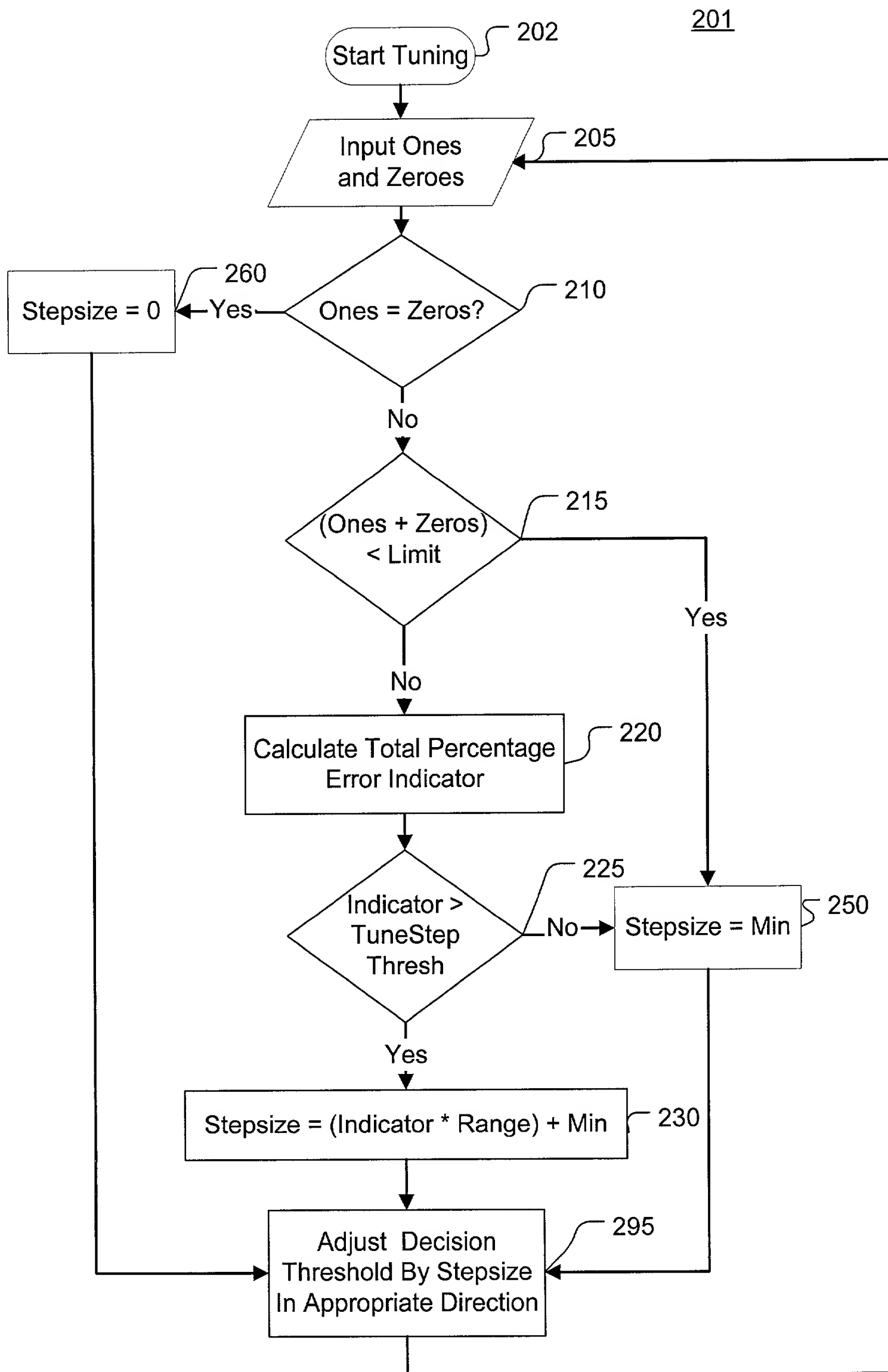


Figure 7

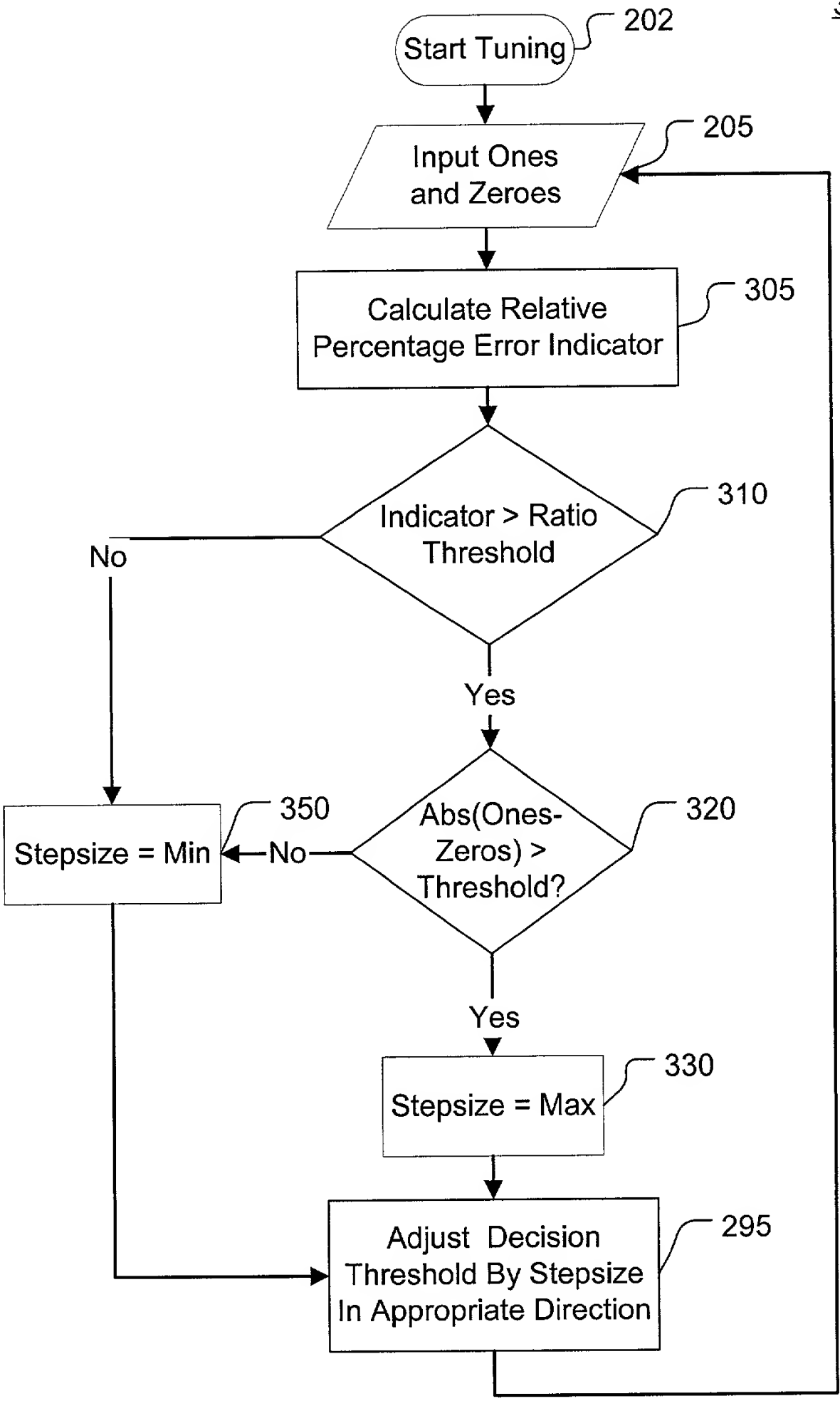


Figure 8a

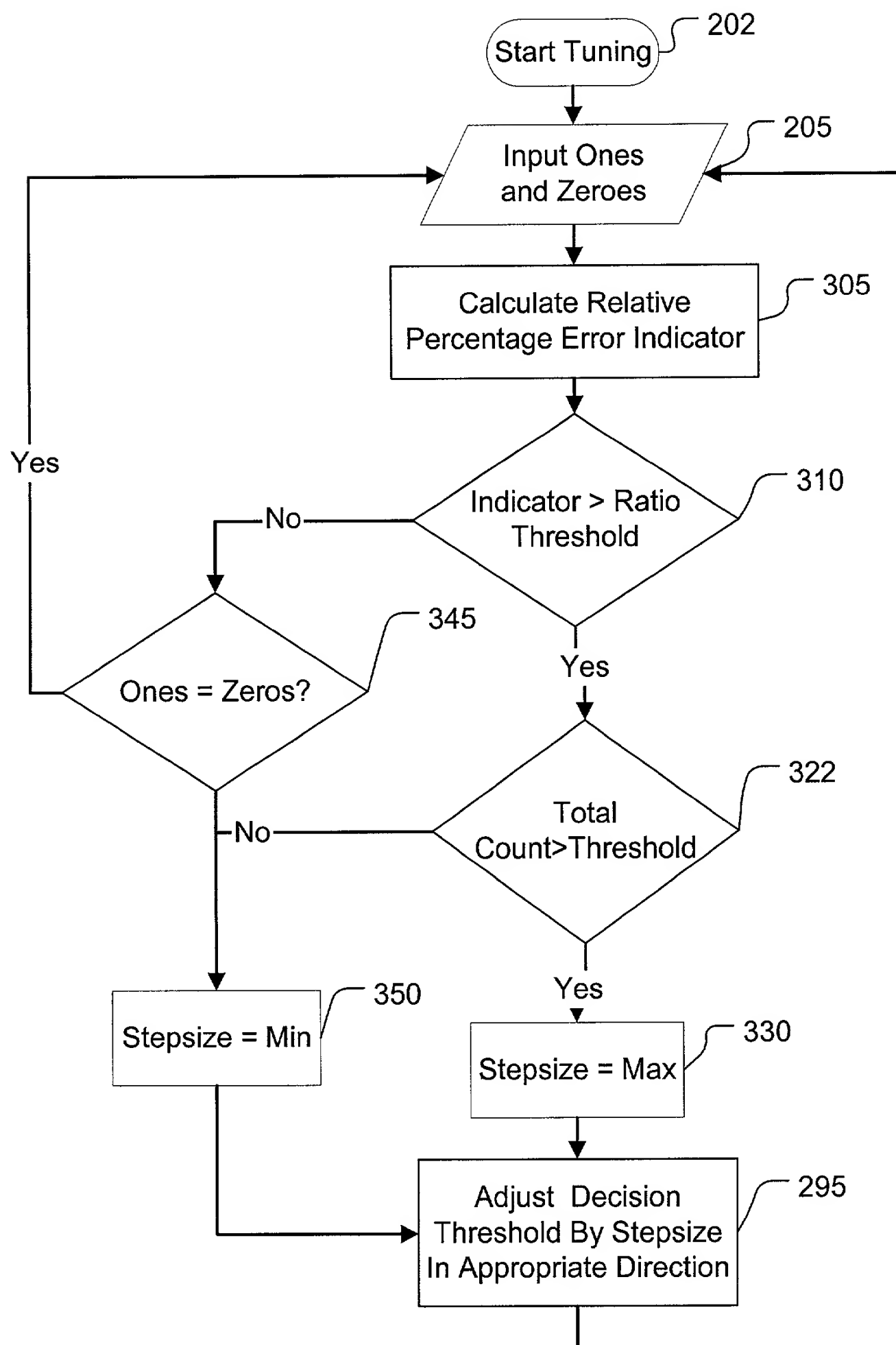
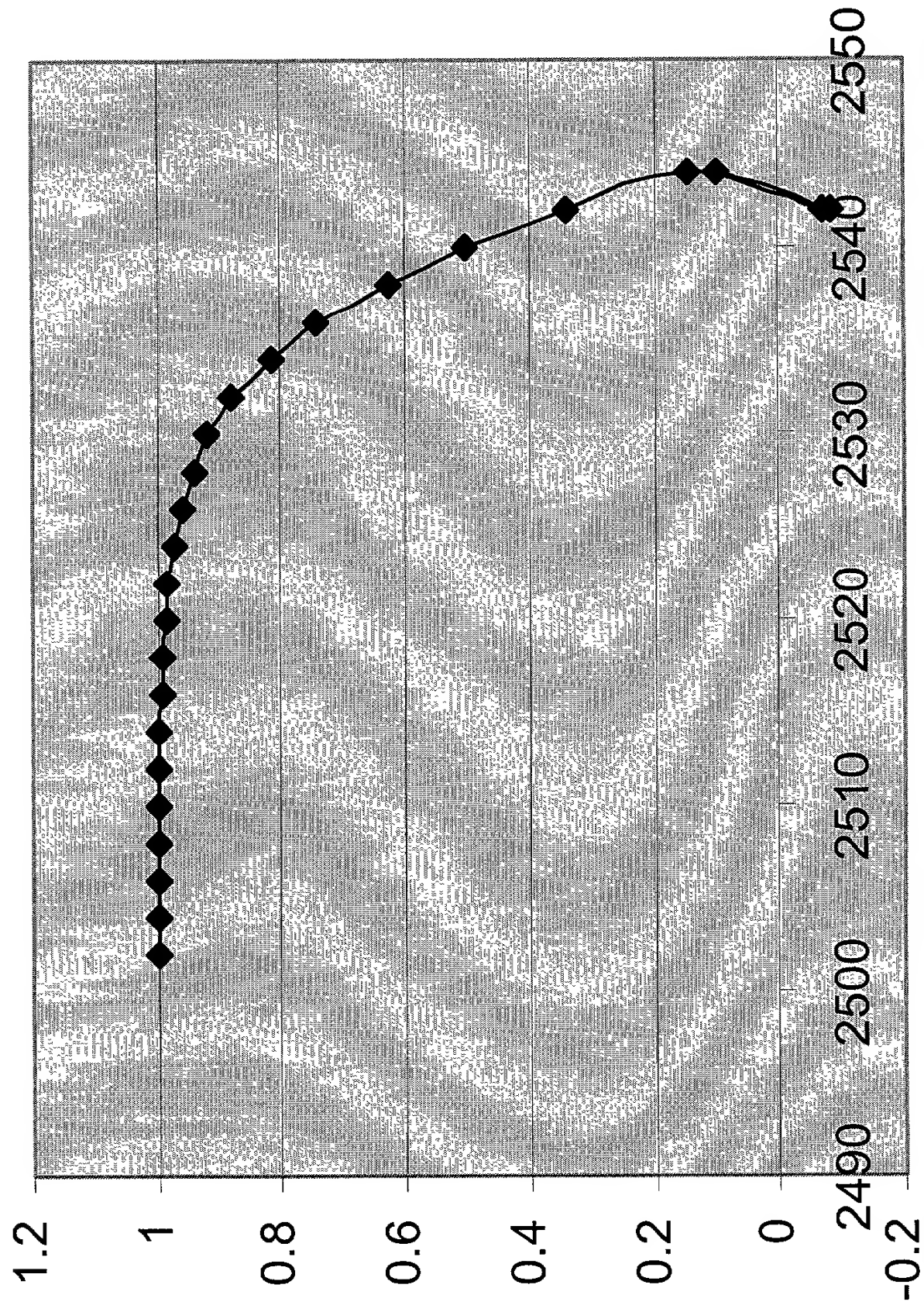


Figure 8b

Difference/Total



—◆— Diff/Total

Figure 9

| DAC | Ones | Zeros | Total errors | Diff/Total |
|------|----------|--------|--------------|-------------|
| 2502 | 17898325 | 4050 | 17902375 | 0.999547546 |
| 2504 | 32450069 | 4857 | 32454926 | 0.999700693 |
| 2506 | 13368701 | 5745 | 13374446 | 0.999140899 |
| 2508 | 11257620 | 7322 | 11264942 | 0.998700038 |
| 2510 | 9465373 | 8801 | 9474174 | 0.998142107 |
| 2512 | 7873139 | 10330 | 7883469 | 0.997379326 |
| 2514 | 6544202 | 12816 | 6557018 | 0.996090906 |
| 2516 | 5441469 | 15528 | 5456997 | 0.994308958 |
| 2518 | 4519664 | 19173 | 4538837 | 0.99155158 |
| 2520 | 3788423 | 22576 | 3810999 | 0.988152188 |
| 2522 | 3135094 | 27696 | 3162790 | 0.982486349 |
| 2524 | 2532165 | 33787 | 2565952 | 0.973665135 |
| 2526 | 2093195 | 40792 | 2133987 | 0.961769214 |
| 2528 | 1682342 | 49836 | 1732178 | 0.94245857 |
| 2530 | 1376353 | 59057 | 1435410 | 0.917714103 |
| 2532 | 1131256 | 71939 | 1203195 | 0.880420048 |
| 2534 | 885459 | 88140 | 973599 | 0.81893983 |
| 2536 | 715597 | 106058 | 821655 | 0.741842988 |
| 2538 | 567115 | 129109 | 696224 | 0.629116491 |
| 2540 | 460630 | 151690 | 612320 | 0.50454011 |
| 2542 | 371422 | 183149 | 554571 | 0.33949305 |
| 2544 | 293295 | 218546 | 511841 | 0.146039493 |
| 2542 | 229267 | 265260 | 494527 | -0.07278268 |
| 2544 | 277227 | 227935 | 505162 | 0.097576619 |
| 2542 | 226951 | 266724 | 493675 | -0.08056515 |

Figure 10